IFWO

RAW SEQUENCE LISTING   DATE: 08/26/2004
PATENT APPLICATION: US/10/751,346   TIME: 11:56:15

Input Set : A:\41426-FA-PCT-US - 8.19.04.txt
Output Set: N:\CRF4\08262004\J751346.raw

```
   3 <110> APPLICANT: Israeli, Ron S.
   4        Heston, Warren D.W.
   5        Fair, William R.
   7 <120> TITLE OF INVENTION: PROSTATE-SPECIFIC MEMBRANE ANTIGEN AND USES THEREOF
   9 <130> FILE REFERENCE: 1769/41426-FA-PCT-US
  11 <140> CURRENT APPLICATION NUMBER: 10/751,346
C--> 12 <141> CURRENT FILING DATE: 2004-01-02
  14 <160> NUMBER OF SEQ ID NOS: 128
  16 <170> SOFTWARE: PatentIn version 3.1
  18 <210> SEQ ID NO: 1
  19 <211> LENGTH: 2653
  20 <212> TYPE: DNA
  21 <213> ORGANISM: HOMO SAPIENS
  23 <400> SEQUENCE: 1
  24 ctcaaaaggg gccggatttc cttctcctgg aggcagatgt tgcctctctc tctcgctcgg      60
  26 attggttcag tgcactctag aaacactgct gtggtggaga aactggaccc caggtctgga     120
  28 gcgaattcca gcctgcaggg ctgataagcg aggcattagt gagattgaga gagactttac     180
  30 cccgccgtgg tggttggagg gcgcgcagta gagcagcagc acaggcgcgg gtcccgggag     240
  32 gccggctctg ctcgcgccga gatgtggaat ctccttcacg aaaccgactc ggctgtggcc     300
  34 accgcgcgcc gcccgcgctg gctgtgcgct ggggcgctgg tgctggcggg tggcttcttt     360
  36 ctcctcggct tcctcttcgg gtggtttata aaatcctcca atgaagctac taacattact     420
  38 ccaaagcata atatgaaagc attttttggat gaattgaaag ctgagaacat caagaagttc     480
  40 ttatataatt ttacacagat accacattta gcaggaacag aacaaaactt tcagcttgca     540
  42 aagcaaattc aatcccagtg gaaagaattt ggcctggatt ctgttgagct agcacattat     600
  44 gatgtcctgt tgtcctaccc aaataagact catcccaact acatctcaat aattaatgaa     660
  46 gatggaaatg agattttcaa cacatcatta tttgaaccac ctcctccagg atatgaaaat     720
  48 gtttcggata ttgtaccacc tttcagtgct ttctctcctc aaggaatgcc agagggcgat     780
  50 ctagtgtatg ttaactatgc acgaactgaa gacttcttta aattggaacg ggacatgaaa     840
  52 atcaattgct ctgggaaaat tgtaattgcc agatatggga aagtttttcag aggaaataag     900
  54 gttaaaaatg cccagctggc aggggccaaa ggagtcattc tctactccga ccctgctgac     960
  56 tactttgctc ctgggggtgaa gtcctatcca gatggttgga atcttcctgg aggtggtgtc    1020
  58 cagcgtggaa atatcctaaa tctgaatggt gcaggagacc ctctcacacc aggttaccca    1080
  60 gcaaatgaat atgcttatag gcgtggaatt gcagaggctg ttggtcttcc aagtattcct    1140
  62 gttcatccaa ttggatacta tgatgcacag aagctcctag aaaaaatggg tggctcagca    1200
  64 ccaccagata gcagctggag aggaagtctc aaagtgccct acaatgttgg acctggcttt    1260
  66 actggaaact tttctacaca aaaagtcaag atgcacatcc actctaccaa tgaagtgaca    1320
  68 agaatttaca atgtgatagg tactctcaga ggagcagtgg aaccagacag atatgtcatt    1380
  70 ctgggaggtc accgggactc atgggtgttt ggtggtattg accctcagag tggagcagct    1440
  72 gttgttcatg aaattgtgag gagctttgga acactgaaaa aggaagggtg gagacctaga    1500
  74 agaacaattt gtttgcaag ctgggatgca gaagaatttg gtcttcttgg ttctactgag    1560
  76 tgggcagagg agaattcaag actccttcaa gagcgtggcg tggcttatat taatgctgac    1620
  78 tcatctatag aaggaaacta cactctgaga gttgattgta caccgctgat gtacagcttg    1680
  80 gtacacaacc taacaaaaga gctgaaaagc cctgatgaag ctttgaagg caaatctctt    1740
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```
 82 tatgaaagtt ggactaaaaa aagtccttcc ccagagttca gtggcatgcc caggataagc   1800
 84 aaattgggat ctggaaatga ttttgaggtg ttcttccaac gacttggaat tgcttcaggc   1860
 86 agagcacggt atactaaaaa ttgggaaaca aacaaattca gcggctatcc actgtatcac   1920
 88 agtgtctatg aaacatatga gttggtggaa aagttttatg atccaatgtt taaatatcac   1980
 90 ctcactgtgg cccaggttcg aggagggatg gtgtttgagc tagccaattc catagtgctc   2040
 92 ccttttgatt gtcgagatta tgctgtagtt ttaagaaagt atgctgacaa aatctacagt   2100
 94 atttctatga aacatccaca ggaaatgaag acatacagtg tatcatttga ttcacttttt   2160
 96 tctgcagtaa agaattttac agaaattgct tccaagttca gtgagagact ccaggacttt   2220
 98 gacaaaagca acccaatagt attaagaatg atgaatgatc aactcatgtt tctggaaaga   2280
100 gcatttattg atccattagg gttaccagac aggccttttt ataggcatgt catctatgct   2340
102 ccaagcagcc acaacaagta tgcaggggag tcattcccag gaatttatga tgctctgttt   2400
104 gatattgaaa gcaaagtgga cccttccaag gcctggggag aagtgaagag acagatttat   2460
106 gttgcagcct tcacagtgca ggcagctgca gagactttga gtgaagtagc ctaagaggat   2520
108 tctttagaga atccgtattg aatttgtgtg gtatgtcact cagaaagaat cgtaatgggt   2580
110 atattgataa attttaaaat tggtatattt gaaataaagt tgaatattat atataaaaaa   2640
112 aaaaaaaaaa aaa                                                        2653
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116 <211> LENGTH: 8
117 <212> TYPE: PRT
118 <213> ORGANISM: HOMO SAPIENS
120 <220> FEATURE:
121 <221> NAME/KEY: MISC_FEATURE
122 <222> LOCATION: (6)..(6)
123 <223> OTHER INFORMATION: Xaa equals any amino acid
126 <400> SEQUENCE: 2
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W--> 128 Ser Leu Tyr Glu Ser Xaa Thr Lys
```
129 1               5
132 <210> SEQ ID NO: 3
133 <211> LENGTH: 15
134 <212> TYPE: PRT
135 <213> ORGANISM: HOMO SAPIENS
137 <220> FEATURE:
138 <221> NAME/KEY: MISC_FEATURE
139 <222> LOCATION: (1)..(1)
140 <223> OTHER INFORMATION: Xaa = any amino acid
143 <220> FEATURE:
144 <221> NAME/KEY: MISC_FEATURE
145 <222> LOCATION: (6)..(6)
146 <223> OTHER INFORMATION: Xaa = any amino acid
149 <220> FEATURE:
150 <221> NAME/KEY: MISC_FEATURE
151 <222> LOCATION: (12)..(12)
152 <223> OTHER INFORMATION: Xaa = any amino acid
155 <400> SEQUENCE: 3
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W--> 157 Xaa Tyr Pro Asp Gly Xaa Asn Leu Pro Gly Gly Xaa Val Gln Arg
```
158 1               5                   10                  15
161 <210> SEQ ID NO: 4
162 <211> LENGTH: 7
163 <212> TYPE: PRT
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```
164 <213> ORGANISM: HOMO SAPIENS
166 <400> SEQUENCE: 4
168 Phe Tyr Asp Pro Met Phe Lys
169 1               5
172 <210> SEQ ID NO: 5
173 <211> LENGTH: 9
174 <212> TYPE: PRT
175 <213> ORGANISM: HOMO SAPIENS
177 <400> SEQUENCE: 5
179 Ile Tyr Asn Val Ile Gly Thr Leu Lys
180 1               5
183 <210> SEQ ID NO: 6
184 <211> LENGTH: 22
185 <212> TYPE: PRT
186 <213> ORGANISM: HOMO SAPIENS
188 <220> FEATURE:
189 <221> NAME/KEY: MISC_FEATURE
190 <222> LOCATION: (4)..(5)
191 <223> OTHER INFORMATION: Xaa = any amino acid
194 <400> SEQUENCE: 6
W--> 196 Phe Leu Tyr Xaa Xaa Thr Gln Ile Pro His Leu Ala Gly Thr Glu Gln
197 1               5                   10                  15
200 Asn Phe Gln Leu Ala Lys
201              20
204 <210> SEQ ID NO: 7
205 <211> LENGTH: 17
206 <212> TYPE: PRT
207 <213> ORGANISM: HOMO SAPIENS
209 <400> SEQUENCE: 7
211 Gly Val Ile Leu Tyr Ser Asp Pro Ala Asp Tyr Phe Ala Pro Asp Val
212 1               5                   10                  15
215 Lys
219 <210> SEQ ID NO: 8
220 <211> LENGTH: 17
221 <212> TYPE: PRT
222 <213> ORGANISM: HOMO SAPIENS
224 <400> SEQUENCE: 8
226 Pro Val Ile Leu Tyr Ser Asp Pro Ala Asp Tyr Phe Ala Pro Gly Val
227 1               5                   10                  15
230 Lys
234 <210> SEQ ID NO: 9
235 <211> LENGTH: 15
236 <212> TYPE: PRT
237 <213> ORGANISM: HOMO SAPIENS
239 <400> SEQUENCE: 9
241 Ala Phe Ile Asp Pro Leu Gly Leu Pro Asp Arg Pro Phe Tyr Arg
242 1               5                   10                  15
245 <210> SEQ ID NO: 10
246 <211> LENGTH: 19
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        Input Set : A:\41426-FA-PCT-US - 8.19.04.txt
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247 <212> TYPE: PRT
248 <213> ORGANISM: HOMO SAPIENS
250 <400> SEQUENCE: 10
252 Tyr Ala Gly Glu Ser Phe Pro Gly Ile Tyr Asp Ala Leu Phe Asp Ile
253 1   5   10   15
256 Glu Ser Lys
260 <210> SEQ ID NO: 11
261 <211> LENGTH: 22
262 <212> TYPE: PRT
263 <213> ORGANISM: Homo sapiens
265 <220> FEATURE:
266 <221> NAME/KEY: MISC_FEATURE
267 <222> LOCATION: (7)..(7)
268 <223> OTHER INFORMATION: Xaa = any amino acid
271 <220> FEATURE:
272 <221> NAME/KEY: MISC_FEATURE
273 <222> LOCATION: (14)..(16)
274 <223> OTHER INFORMATION: Xaa = any amino acid
277 <400> SEQUENCE: 11
W--> 279 Thr Ile Leu Phe Ala Ser Xaa Asp Ala Glu Glu Phe Gly Xaa Xaa Xaa
280 1   5   10   15
283 Ser Thr Glu Glu Ala Glu
284   20
287 <210> SEQ ID NO: 12
288 <211> LENGTH: 17
289 <212> TYPE: DNA
290 <213> ORGANISM: Homo sapiens
292 <220> FEATURE:
293 <221> NAME/KEY: misc_feature
294 <222> LOCATION: (12)..(12)
295 <223> OTHER INFORMATION: n = any nucleotide
298 <400> SEQUENCE: 12
W--> 299 ttytaygayc cnatgtt   17
302 <210> SEQ ID NO: 13
303 <211> LENGTH: 17
304 <212> TYPE: DNA
305 <213> ORGANISM: Homo sapiens
307 <220> FEATURE:
308 <221> NAME/KEY: misc_feature
309 <222> LOCATION: (6)..(6)
310 <223> OTHER INFORMATION: n=any nucleotide
313 <400> SEQUENCE: 13
W--> 314 aacatnggrt crtaraa   17
317 <210> SEQ ID NO: 14
318 <211> LENGTH: 17
319 <212> TYPE: DNA
320 <213> ORGANISM: Homo sapiens
322 <220> FEATURE:
323 <221> NAME/KEY: misc_feature

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Input Set : **A:\41426-FA-PCT-US - 8.19.04.txt**
Output Set: **N:\CRF4\08262004\J751346.raw**

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       324 <222> LOCATION: (12)..(12)
       325 <223> OTHER INFORMATION: n=any nucleotide
       328 <400> SEQUENCE: 14
W-->   329 athtayaayg tnathgg                                          17
       332 <210> SEQ ID NO: 15
       333 <211> LENGTH: 17
       334 <212> TYPE: DNA
       335 <213> ORGANISM: Homo sapiens
       337 <220> FEATURE:
       338 <221> NAME/KEY: misc_feature
       339 <222> LOCATION: (6)..(6)
       340 <223> OTHER INFORMATION: n=any nucleotide
       343 <400> SEQUENCE: 15
W-->   344 ccdatnacrt trtadat                                          17
       347 <210> SEQ ID NO: 16
       348 <211> LENGTH: 17
       349 <212> TYPE: DNA
       350 <213> ORGANISM: Homo sapiens
       352 <220> FEATURE:
       353 <221> NAME/KEY: misc_feature
       354 <222> LOCATION: (3)..(3)
       355 <223> OTHER INFORMATION: n=any nucleotide
       358 <220> FEATURE:
       359 <221> NAME/KEY: misc_feature
       360 <222> LOCATION: (6)..(6)
       361 <223> OTHER INFORMATION: n=any nucleotide
       364 <400> SEQUENCE: 16
W-->   365 ccngcngayt ayttygc                                          17
       368 <210> SEQ ID NO: 17
       369 <211> LENGTH: 17
       370 <212> TYPE: DNA
       371 <213> ORGANISM: Homo sapiens
       373 <220> FEATURE:
       374 <221> NAME/KEY: misc_feature
       375 <222> LOCATION: (12)..(12)
       376 <223> OTHER INFORMATION: n=any nucleotide
       379 <220> FEATURE:
       380 <221> NAME/KEY: misc_feature
       381 <222> LOCATION: (15)..(15)
       382 <223> OTHER INFORMATION: n=any nucleotide
       385 <400> SEQUENCE: 17
W-->   386 gcraartart cngcngg                                          17
       389 <210> SEQ ID NO: 18
       390 <211> LENGTH: 20
       391 <212> TYPE: DNA
       392 <213> ORGANISM: Homo sapiens
       394 <220> FEATURE:
       395 <221> NAME/KEY: misc_feature
       396 <222> LOCATION: (3)..(3)
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RAW SEQUENCE LISTING ERROR SUMMARY        DATE: 08/26/2004
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Input Set : A:\41426-FA-PCT-US - 8.19.04.txt
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```

lease Note:
se of n and/or Xaa have been detected in the Sequence Listing. Please review the
equence Listing to ensure that a corresponding explanation is presented in the <220>
o <223> fields of each sequence which presents at least one n or Xaa.

```
eq#:2;  Xaa Pos. 6
eq#:3;  Xaa Pos. 1,6,12
eq#:6;  Xaa Pos. 4,5
eq#:11; Xaa Pos. 7,14,15,16
eq#:12; N Pos. 12
eq#:13; N Pos. 6
eq#:14; N Pos. 12
eq#:15; N Pos. 6
eq#:16; N Pos. 3,6
eq#:17; N Pos. 12,15
eq#:18; N Pos. 3
eq#:19; N Pos. 18
eq#:22; N Pos. 9
eq#:23; N Pos. 12
eq#:24; N Pos. 9
eq#:25; N Pos. 9
eq#:26; N Pos. 82,83,84,193,196,197,217,218,219,232,233,237,238,253,254
eq#:26; N Pos. 255,256,263,600,601,721,722,723,724
eq#:27; N Pos. 224,255,412,413,414,433,520,521,536,537,538,539,540,541,542
eq#:27; N Pos. 543
eq#:28; N Pos. 214,377
eq#:105; N Pos. 20
eq#:110; N Pos. 537,538,539,540,541,542,543,544,545,546,547,548,549,550
eq#:110; N Pos. 606,607,675,676,683,687,731
eq#:111; N Pos. 634,635,636,637,638,639,640,641,642,643,644,645,646,647
eq#:111; N Pos. 648,649,650,950,951,952,953,954,955,956,957,958,959,960
eq#:111; N Pos. 961,1045,1102
eq#:112; N Pos. 314,315,316,317,318,319,452
eq#:114; N Pos. 582,583,641,674,679,680,694,790,791
eq#:116; N Pos. 272,273,274,275,276,277,278,545,546,547,548,549,550,935
eq#:116; N Pos. 936,937,938,939,940,941,942,943,944,945,946,947,948,949
eq#:116; N Pos. 950,1034,1035,1036
eq#:121; N Pos. 634,635,636,637,638,639,640,641,642,643,644,645,646,647
eq#:121; N Pos. 648,649,650,950,951,952,953,954,955,956,957,958,959,960
eq#:121; N Pos. 961,1045,1103,1362,1363,1364,1365,1366,1367,1368,1369,1533
eq#:121; N Pos. 1534,1543,1616,1617,1783
eq#:122; N Pos. 314,315,316,317,318,319,452,1037,1038
eq#:123; N Pos. 380,381,382,383,384,385,386,387,675,676,677,678,679,680
eq#:123; N Pos. 720,974,977,981,1090,1166,1167,1168,1169,1170,1171,1210
eq#:125; N Pos. 504
eq#:126; N Pos. 262,263,264,265,266,267,268,545,546,547,548,549,550,900
eq#:126; N Pos. 901,902,903,904,905,906,907,917,955,1009
eq#:127; N Pos. 840,841,842,843,1096,1097,1098,1099,1100,1101,1294,1295
eq#:127; N Pos. 1338,1339,1340,1341,1342,1343,1965,1966
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L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:128 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:157 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:196 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:279 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:299 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
L:314 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:329 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:344 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:365 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:386 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:401 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
L:416 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L:449 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0
L:464 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
L:479 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0
L:494 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0
L:565 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:60
L:569 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:180
L:571 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:240
L:581 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:540
L:583 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:600
L:587 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:720
L:638 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:180
L:640 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:240
L:644 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:360
L:646 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:420
L:648 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:480
L:650 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:540
L:679 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:180
L:685 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:360
L:1404 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:105 after pos.:0
L:1601 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:110 after pos.:480
L:1603 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:110 after pos.:540
L:1605 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:110 after pos.:600
L:1607 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:110 after pos.:660
L:1609 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:110 after pos.:720
L:1662 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:111 after pos.:600
L:1672 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:111 after pos.:900
L:1674 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:111 after pos.:960
L:1676 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:111 after pos.:1020
L:1678 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:111 after pos.:1080
L:1715 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:112 after pos.:300
L:1719 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:112 after pos.:420
L:1815 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:114 after pos.:540
L:1817 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:114 after pos.:600
L:1819 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:114 after pos.:660
L:1823 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:114 after pos.:780
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```
.:1903 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:116 after pos.:240
.:1913 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:116 after pos.:540
.:1925 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:116 after pos.:900
.:1929 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:116 after pos.:1020
.:2338 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:121 after pos.:600
.:2348 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:121 after pos.:900
.:2350 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:121 after pos.:960
.:2352 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:121 after pos.:1020
.:2354 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:121 after pos.:1080
.:2362 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:121 after pos.:1320
.:2368 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:121 after pos.:1500
.:2370 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:121 after pos.:1560
.:2376 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:121 after pos.:1740
.:2417 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:122 after pos.:300
.:2421 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:122 after pos.:420
.:2441 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:122 after pos.:1020
.:2524 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:123 after pos.:360
.:2534 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:123 after pos.:660
.:2544 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:123 after pos.:960
.:2548 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:123 after pos.:1080
.:2550 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:123 after pos.:1140
.:2552 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:123 after pos.:1200
.:2618 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:125 after pos.:480
.:2681 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:126 after pos.:240
.:2691 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:126 after pos.:540
.:2701 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:126 after pos.:840
.:2703 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:126 after pos.:900
.:2705 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:126 after pos.:960
.:2772 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:127 after pos.:780
.:2774 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:127 after pos.:840
.:2782 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:127 after pos.:1080
.:2788 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:127 after pos.:1260
.:2790 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:127 after pos.:1320
.:2810 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:127 after pos.:1920
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